

Title (en)

THERMALLY EXPANDABLE MICROSPHERES PREPARED FROM BIO-BASED MONOMERS

Title (de)

THERMISCH EXPANDIERBARE MIKROKUGELN AUS MONOMEREN AUF BIOBASIS

Title (fr)

MICROSPHÈRES THERMIQUEMENT EXPANSIBLES PRÉPARÉES À PARTIR DE MONOMÈRES D'ORIGINE BIOLOGIQUE

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Application

EP 21715657 A 20210401

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Abstract (en)

[origin: WO2021198492A1] The invention relates to thermoplastic polymeric microspheres comprising a thermoplastic polymer shell surrounding a hollow core, in which the thermoplastic polymer shell comprises a copolymer of a monomer of Formula 1 : wherein: each of A1 to A11 are independently selected from H and C1 to C4 alkyl, in which each C1-4 alkyl group can optionally be substituted with one or more substituents selected from halogen, hydroxy and C1-4 alkoxy; A12 is selected from C1 to C4 alkyl, in which the C1-4 alkyl group can optionally be substituted with one or more substituents selected from halogen, hydroxy and C1-4 alkoxy X is a linking group selected from -O-, -NR"-, -S-, -OC(O)-, -NR"C(O)-, -SC(O)-, -C(O)O-, -C(O)NR"-, and -C(O)S-; and R" is H or C1-2 alkyl optionally substituted with one or more substituents selected from halogen and hydroxyl; wherein the thermoplastic polymer shell comprises one or more other ethylenically unsaturated co-monomers not of Formula 1 having no more than one non-aromatic C=C double bond, at least one of which is a nitrile-containing monomer; the content of nitrile-containing monomer in the in the copolymer being greater than 20 wt%.

IPC 8 full level

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